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**From:** Dan Johnson [DanJohnson@florencecopper.com]  
**Sent:** 11/5/2018 3:06:52 PM  
**To:** Rumrill, Nancy [Rumrill.Nancy@epa.gov]  
**CC:** Albright, David [Albright.David@epa.gov]  
**Subject:** RE: Description for using 316L stainless steel adaptors in PTF Wellfield  
**Attachments:** ATT00001.txt; Description for using 316L stainless steel adaptors in PTF Wellfield

Good Morning Nancy,

Please see attached email sent on 11/01 that addressed that question. Please let me know if you needed additional information on this description.

Best Regards,

**Dan Johnson** VP | General Manager



Florence Copper Inc.  
1575 W. Hunt Highway Florence AZ USA 85132  
C 520-233-1930 T 520-374-3984 F 520-374-3999  
E [danjohnson@florencecopper.com](mailto:danjohnson@florencecopper.com) Web [florencecopper.com](http://florencecopper.com)

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**From:** Rumrill, Nancy [mailto:Rumrill.Nancy@epa.gov]  
**Sent:** November-02-18 3:12 PM  
**To:** Dan Johnson  
**Cc:** Albright, David  
**Subject:** RE: Description for using 316L stainless steel adaptors in PTF Wellfield

Hi Dan,  
The injection wells also have 316L stainless steel casing between FRP to PVC adaptor and the PVC screen. This was not included in the proposed. Please provide a reason for that casing.

Thanks, Nancy

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*Nancy Rumrill ([rumrill.nancy@epa.gov](mailto:rumrill.nancy@epa.gov))  
Drinking Water Protection Section (WTR-3-2)  
US EPA, Region IX  
75 Hawthorne St.  
San Francisco, CA 94105  
Phone (415) 972-3293*

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**From:** Dan Johnson <DanJohnson@florencecopper.com>  
**Sent:** Thursday, November 1, 2018 5:53 PM  
**To:** Rumrill, Nancy <Rumrill.Nancy@epa.gov>  
**Cc:** Albright, David <Albright.David@epa.gov>  
**Subject:** Description for using 316L stainless steel adaptors in PTF Wellfield

Hi Nancy,

Per our earlier conversation, below is a description for using 316L stainless steel adaptors in PTF wells:

*Adaptors fabricated from 316L stainless steel were used to transition between F480 flush-threaded PVC casing and API 8 round thread fiberglass casing in the recovery, injection, observation and Westbay wells. These adaptors required custom machining due to the use of both F480 and API 8 threads on each piece. Stainless steel (316L) solid round bar was used to machine these parts as this material was readily available while also having the chemical resistance required for acidified raffinate and pregnant leach solution. Stainless steel couplings are also much stronger than comparable couplings made of PVC or fiberglass material.*

Please let me know if there are any questions on this description.

Best Regards,

**Dan Johnson** VP | General Manager



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